Center Status Summaries

Kennedy – May 2010: Brian Graf

Ames – February 2011: Soheila Dianati

Langley – September 2011: Steve Craft

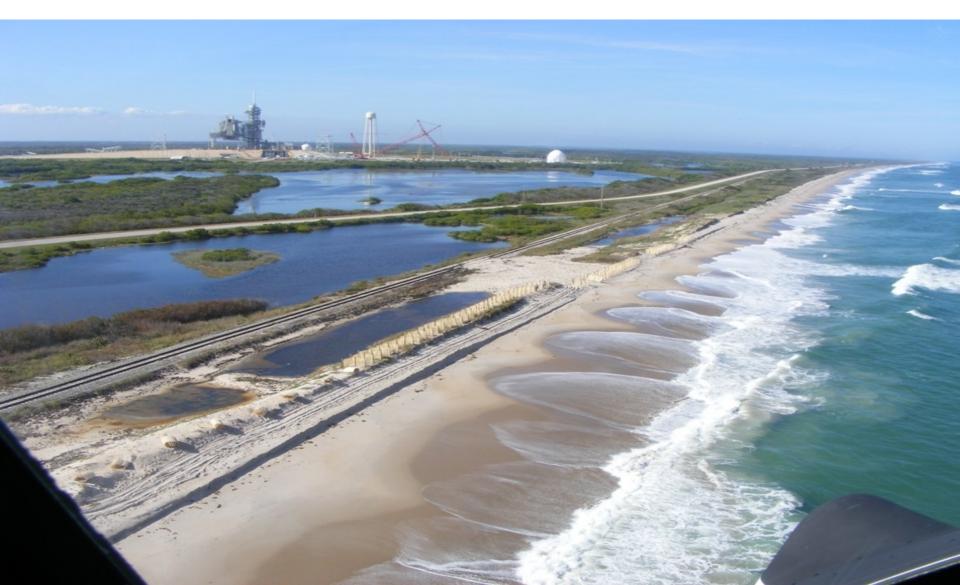
Johnson – March 2012: Pat Kolkmeier

Stennis – October 2012: Mike Killiam

Goddard-Wallops – Nov. 2012: Caroline Massey



Center Update Kennedy Space Center



Kennedy Space Center Center Operations Directorate

Process for Assessing Climate Risks to Center Assets

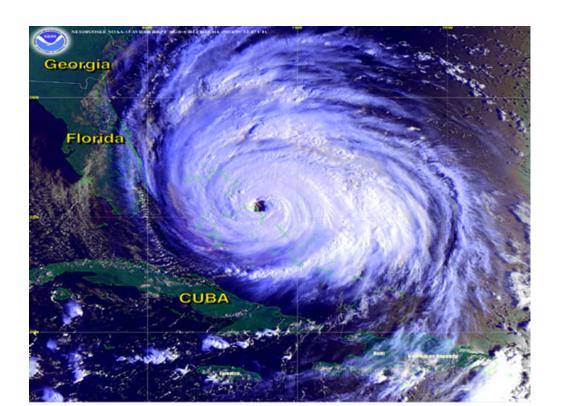
- CASI funded modeling
- Ongoing effort with recent CASI funding approved
- All of KSC's assets at risk





Chief Climate Impacts of Concern

- Sea level rise critical infrastructure launch capability
- Ground water rise utility impacts
- More numerous and sever tropical weather events infrastructure
- ♦ Temperature rise utility usage







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Non-Infrastructure Risks

♦ KSC is home to 33 federally and state protected species that depend on the existing land use for survival







Lagoon water level rise assessment

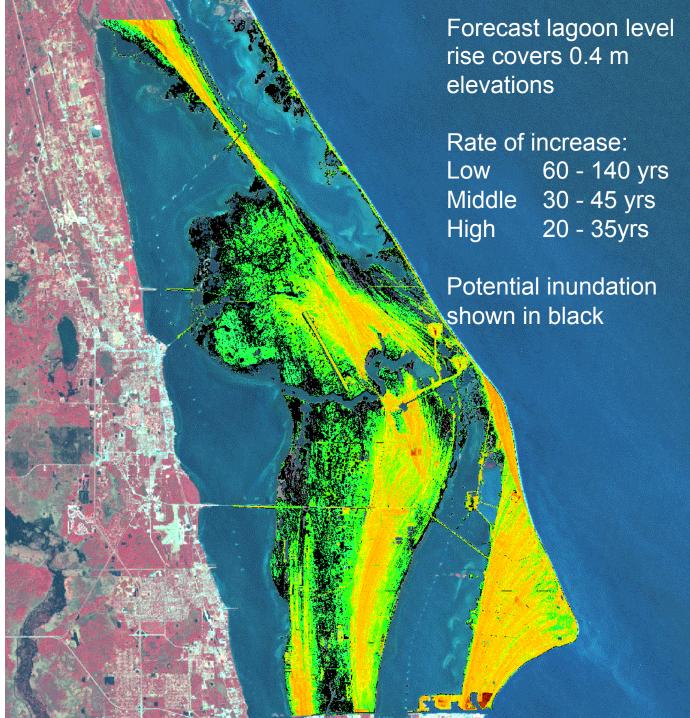
Current conditions:

Atlantic Ocean mean sea level -0.29 m NAVD88

Fall high water level -0.12 m NAVD88

Indian River
Lagoon mean water
elevation
-0.21 m NAVD88

Fall high water level -0.01 m NAVD88





Dune Removal & Erosion



Challenges and Accomplishments Kennedy Space Center Center Operations Directorate

- KSC recently notified that \$11M of GSDO funds targeted for long term shoreline erosion repair were "reassigned"
- No current mitigation funded
- ♦ Good news...CASI models show that most facilities first floor elevations will remain above water if worst case scenario of sea level rise is realized. However, underground utilities, stormwater management systems and roadways will be significantly impacted